



## Multilec® Industrial Oil (6803)

### Coal Burning Power Plant – Montana

### Ingersoll Rand SSR Rotary Compressor

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#### Customer Profile

This is a large, multi-location coal burning power generator. They also own hydroelectric generating plants in the state, as well as in other parts of the country.

#### Application

Ingersoll Rand SSR EP 150 Rotary Screw Compressors (4 units total for process air).

#### Challenge

While using a high profile major brand synthetic oil especially designed for Rotary Screw Compressors, the generator was seeing unusual oil viscosity readings. Ingersoll Rand recommended an ISO-68 oil. The oil supplier suggested that an alarm be set at 90cSt for oil viscosity increases. The alarm was set because it was not abnormal for the ISO-68 to climb to 90cSt (vis @ 40°C) while using their oil. This could happen within 1,000 hours of run time, varying from unit to unit, and had been happening for years.

#### LE Solution

Since the generator was already using a high dollar synthetic oil, without any results, there was no hesitating in allowing an LE product to try to reduce the oil viscosity readings. All results were documented by monthly oil analysis over a one-year period of time. Monolec®

Synthetic Industrial Oil (9063) and Multilec® Industrial Oil (6803) readings right at spec (68.3) for over 5,000 hours and is still in the machine accumulating more hours. Multilec 6803 also costs at least \$6.00/gallon less than the previous product; the sump capacity is 22 gallons. Three out of four units have been converted to Multilec 6803 and the fourth unit is scheduled for conversion.

#### Results

You can figure the oil cost for yourself. However, the real savings is in the fact that there are no longer any alarms going off on these compressors, which would necessitate downtime and oil changes. With the current market price for electricity in this region going up, the cost savings could be considered very significant.

#### Other Products Used

- Almasol® High Temperature Lubricant (1250) – generator Soot Blower bearings
- Quinplex® Food Machinery Lubricant (4024) – Wicket gate bearings at the hydro-plants
- Quinplex® Synthetic Food Grade Oil (4046) – hydraulics on the waste gate systems

*Thank you to the generator personnel, and to the local LE lubrication consultant, for providing the information used in this report.*



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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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